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Dräger medical
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Field Service Procedure

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Innovian Workstation Installation Procedure

Upgrade, Install, & Disaster Recovery

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Upgrades and New Installations

This chapter provides the steps necessary to upgrade from a Saturn 4.x system to an Innovian system, as well as implement new installations. An "automated" procedure is provided for Dräger-supplied hardware (WPU, Advantech and EG) and a "manual" procedure is provided for third-party hardware. The minimum specified hardware is a 400 MHz WPU with 256 MB RAM.

** **Once all workstations are installed, proceed to the Innovian Terminology Services Code Loader User Guide (located on the Innovian Version 1.2 Install disk) for creation and distribution of supported Terminology databases.**

*** **When Installation is complete and the user is not a local administrator (i.e., automated procedure in** \Build **defaults to the user not being a local administrator), you must log on as the local administrator to configure pcAnywhere and to authorize DataCaptor. (Authorize DataCaptor ONLY IF the site uses Fresenius Infusion pumps.)**

Overview

This document is intended for internal use by Dräger Medical personnel as it relates to product performance, compliance with regulatory and/or agency standards, manufacturability, testability, and serviceability. This document is intended for those with expertise in Microsoft Windows operating system setups.

Base Software version:

Windows 2000 SP4 with all Windows updates as of 05/12/2004 (Excluding .Net Framework and MS Journal Viewer). .Net framework is installed by the scripted process.

Assumptions & Prerequisites

The following conditions are prerequisites for upgrades and new installations:
Use this section to identify files that will need to be edited in the install/upgrade process.

1. The system uses Dräger hardware (**WPU, Advantech, EG**). All other clinical hardware or non-clinical workstations are installed with the "manual" procedure. The manual Install procedure requires that you are a local administrator to install the software.
2. There must be an existing domain account and password with the right to change computer accounts in the domain. You must edit the **sysprep.inf** file with the specific site account information (domain, username and password).
3. The Clinical workstation is located in the Eastern US Time zone (035). If this is not correct, edit the **Sysprep.inf** file located in the \Build\Sysprep folder with the appropriate value. A list of the Time Zone codes can be found in **Appendix A**.
4. The user is a member of the local administrators group and **auto admin logon** is enabled. If the user is not a local administrator for the Automatic Build Procedure, the **Sanur.exe** file (located in the \Build\Applications\90_Draeger_Suite folder) must reside on the local workstation in the **%systemroot%\system32** folder. If the workstation user is a local administrator at the start of the process, no changes are required and at the end of the process the user will be changed to a standard domain user and the **Sanur.exe** file will be copied to the local workstation for further upgrades.
5. The database server is a member server in the domain. If the database server is the domain controller, the workstations must be re-added to the domain after the server is rebuilt with the new server operating system (i.e., re-added, added to local administrators group, and auto admin logon is enabled as the domain user) *before* the workstation upgrade process takes place.
6. The server is completely rebuilt and the database setup is complete (protocols have been loaded and users have been created).
7. The site must have a domain user "**wpuser**" with password "**wpuser**". If not, go to "Editing Site User Information" on page 5 (**Start_Migration.cmd**, **AppInst.cmd** and **PQVF.vfd**).
8. The database ServerName is **Serv70**. If this is not correct, edit the **Install.cmd** file (located in the \Build\Applications\90_Draeger_Suite folder) to the appropriate server name.
9. The time server is 192.168.10.2. If this is not correct, edit the **TimeService.reg** file (located in the \Build\Applications\90_Draeger_Suite folder) to the appropriate IP address of the database server. If the site has a global (domain) time synchronization in place, **comment out** (rem) the line where the **TimeService.reg** is executed in the **Install.cmd** (file located in the \Build\Applications\90_Draeger Suite folder).
10. The printers on the workstation are "shared" on a server. If they are locally installed printers, they will not be migrated and will need to be reinstalled when the automated procedure is complete. Shared/mapped printers on the server are the preferred method of installation because they will be migrated.
11. The clinical workstation is not a WPU with a 6GB HD – See **Appendix D** if the workstation has a 6 GB HD.

Editing Site User Information

These files must be edited if their status is not the same as the requirements outlined in "Assumptions & Prerequisites."

Sysprep.inf (located in \Build\Sysprep folder)
Start_Migration.cmd (Located in \Build\Scripts folder)
AppInst.cmd (Located in \Build\LocalW2k\Install\scripts folder)
PQVF.vfd (Located in \Build\VFD folder – see "Editing the PQVF.vfd" below for editing information)
Install.cmd (Located in the \Build\Applications\90_Draeger_Suite folder)
TimeService.reg (Located in the \Build\Applications\90_Draeger_Suite folder)

Editing the PQVF.vfd (Virtual Floppy):

Follow these steps to create a new password file (**stuffit.dat**) and edit the user (**nicdet.ini**) for the virtual boot floppy:

1. Launch the **PowerQuest Boot Disk Builder**.
2. Select **Microsoft TCP/IP boot disks** and then click **Next**.
3. Enter the site specific user name, password and domain. Set the drive letter to **O** and make the UNC path **\\server\build**. Click **Next**.
4. Select **Do not run image center**. Click **Next**.
5. Select **Intel Pro 100 NIC**. Click **Next**.
6. Deselect **Novell Netware IPX/Powercast**.
7. Select **Enter Driver information manually**. Click **Next**.
8. Enter **Test** in both text fields. Click **Next**.
9. Browse to an **E100b.dos** file. Click **Open** and then click **Next**.
10. Leave IP at **DHCP**. Click **Next**.
11. Select **Copy boot disk contents to a folder**.
12. Browse to an appropriate temporary folder. Click **finish**.
13. Click **Yes** if output folder does not exist.
14. Click **No** to save settings for future user.
15. Exit the **Boot Disk Builder**.
16. Launch the Virtual Floppy editor **(\Build\PQTools\PQVFEDIT.exe)**.
17. Browse to **\Build\VFD\PQVF.vfd** and open the file.
18. Right-click **nicdet.ini** and extract the file to a temporary folder.
19. Browse the **nicdet.ini** that was just extracted and edit the Username=**wpuser** to the user for the specific site, then save the file.
20. Return to the Virtual Floppy editor and select **Image** and then **Inject** from the toolbar.
21. Browse to the **nicdet.ini** you just edited and select **yes** to overwrite the existing file.
22. In the Virtual Floppy editor, change folder to the net folder.
23. Select **Image** and then **Inject** from the toolbar again.

24. Browse to the temporary folder that was created with the Boot Disk builder and go to the net folder.
25. Select the **stuffit.date** file and select **Yes** to overwrite the existing file.
26. Close the Virtual Floppy editor and select **Yes** to save the image.
27. Test it on one clinical workstation to make sure the imaging process is successful.

Upgrading from Saturn to Innovian or Innovian to Innovian:

Use the following Automatic Build procedure:

1. Clear local queues and disable the Saturn application.
2. Copy **\Build** folder (located in BaseMedia\Workstation) from the DVD to the server. Remove read-only from all files. Share this folder as 'build' with full control to everyone.
3. Edit files as per Assumptions & Prerequisites.
4. Edit **sysprep.inf** located in the **\Build\Sysprep** folder. Enter the correct domain name, user name and password for adding computers to the domain.
5. Edit the **Install.cmd** file in the **\Build\Applications\90_Draeger_Suite** folder. Set the **ServerName** variable to the correct database server name. Also select the correct **LogMode** and **FaultTolerant** mode.
6. Identify hardware and put the computer names in the correct upgrade file lists in the **\Build\Scripts** folder (Examples: _adv.txt, _eg.txt, _wpu09apc.txt).
   To find the IRQ value:
   Go to Control Panel -> Ports
   Check advanced port settings for COM5. Read the value in the Interrupt Request Line (IRQ).
   If value is 2 or 9; use WPU09 with corresponding UPS.
   If value is 11; use WPU11 with corresponding UPS.
7. Run **disc2push.cmd** in the **\Build\Scripts** folder. Verify that the status is 'Disconnected'.
8. Run **att2push.cmd** in the **\Build\Scripts** folder. Verify that the status is 'OK'.
9. Execute the **Push_mig.cmd** file in the **\Build\Scripts** folder.
10. When the automatic build procedure finishes, execute the **ProtocolUpgradeUtility.exe** located in the **C:\Program Files\Draeger Medical\Innovian Application Suite** folder on the workstation *before* you configure the ports in Innovian Case Recorder. Log on using the setup user, and click the button to load the protocol settings into the database.
11. Verify logs and functionality of workstations when the procedure is done. (For example, calibrate the touch screen; verify screen resolution, colors and refresh rate; verify communication with patient monitors).
12. Check the **Buildapps_log.txt** located in the **C:\Draeger\Logs\Install** folder. There will be two entries per application folder if the application script ran the whole way. Scripts that did not run will have only one entry.
13. Check the **App_log.txt and DB_log.txt** located in the **C:\Draeger\Logs\Install** folder for troubleshooting of the Innovian Application Suite install and Innovian FT setup install (Local database and queue).
14. When the site is upgraded, make the '**build**' folder non-shared.

Implementing New Installations

Use the following Automatic Build procedure:
Prerequisite: The unit must be preloaded with a plain OS.

1. Enter the correct IP information.
2. Change PC name and add workstation to domain.
3. Log on as desired domain user (the user must be a member of the local administrators group) and enable **auto admin logon**.
4. Run steps 2 – 8 from the "*Upgrading from Saturn to Innovian*" procedure.
5. **PcAnywhere** callers and security settings must be configured manually.
6. The correct **screen** settings and **desktop background** must be selected manually.
7. Check the **time settings** and the **regional settings** and adjust them, if necessary.
8. Set up **printers** according to the site survey.
9. Configure protocols in **Workstation Configuration**.
10. Verify the logs and the functionality of the workstations when the procedure is done. (Examples: calibrate the touch screen; verify screen resolution, colors and refresh rate; verify communication with the patient monitors.)
11. Check the **Buildapps_log.txt** located in the **C:\Draeger\Logs\Install** folder. There will be two entries per application folder if the application script ran the whole way. Scripts that did not run will have only one entry.
12. Check the **App_log.txt and DB_log.txt** located in the **C:\Draeger\Logs\Install** folder for troubleshooting of the Innovian Application Suite install and Innovian FT setup install (Local database and queue).
13. When the site is installed, make the '**build**' folder non-shared.

Disaster Recovery – Automatic Procedure

Use the following Automatic Build procedure:
Prerequisite: The unit must be preloaded with a plain OS.

1. Enter the correct IP information.
2. Change PC name and add workstation to domain.
3. Log on as desired domain user (the user must be a member of the local administrator's group) and enable **auto admin logon**.
4. Run steps 4 – 8 in the "*Upgrade from Saturn to Innovian*" procedure.
5. After the build process is complete, reapply configuration settings file from the initial install or upgrade. Look in the **\Build\MigData** folder on the server. Scan the MIGLOG.TXT file for the name of the PC and the associated **shortname**. (If more than one entry for that PC name exists, use the most current one). Open the correct subfolder in the **\Build\MigData** directory and then execute the **restore_PCNAME.cmd** file. Reboot for the settings to take effect.
6. Verify logs and functionality of workstations when the procedure is done. (Example: calibrate touch screen; verify screen resolution, colors and refresh rate; verify communication with patient monitors.)
7. Check the **Buildapps_log.txt** located in the **C:\Draeger\Logs\Install** folder. There will be two entries per application folder if the application script ran the whole way. Scripts that did not run will have only one entry.
8. Check the **App_log.txt and DB_log.txt** located in the **C:\Draeger\Logs\Install** folder for troubleshooting of the Innovian Application Suite install and Innovian FT setup install (Local database and queue).
9. When rebuild is complete, make the '**build**' folder non-shared.

Manual Installation Procedure

Use the following Manual Build procedure.

Prerequisites:

The unit must be preconfigured and patched OS (Windows 2000 and XP only) Internet Explorer 6.01 and MDAC 2.7SP1:

Assumptions & Prerequisites

The following conditions are prerequisites for manual installations:

1. The workstation does not have MSDE installed or a previous version of Innovian Installed. See the steps for Manual Upgrade if the workstation has any of these.
2. The user is a member of the local administrators group. If not, the software needs to be installed under the local administrator account.
3. **Auto admin logon** is enabled. If not, the user must manually log in for each reboot.
4. The database ServerName is **Serv70**. If this is not correct, edit the **Install.cmd** file (located in the \Workstation\Manual\Install\Apps\90_Draeger_Suite folder) to the appropriate server name.
5. The time server is 192.168.10.2. If this is not correct, edit the **TimeService.reg** file (located in the \Workstation\Manual\Install\90_Draeger_Suite folder) to the appropriate IP address of the database server. If the site has a global (domain) time synchronization in place, **comment out** (rem) the line where the **TimeService.reg** is executed in the **Install.cmd** (file located in the \Workstation\Manual\Install\90_Draeger Suite folder).

Default Program Installation for the Manual Install

These files reside in \Install\Apps under the manual install.

20_DotNetFrame (FW 1.0 and 1.1)	**YES**
30_Adobe60	**YES**
40_MSDE2KSP3	**YES**
50_datacaptor	**NO**
60_remotecontrol	**YES**
70_antivirus	**NO**
81_ups_touch	**YES** (Only power options for screen – does not configure UPS or touch screen)
82_NotLocalAdmin	**NO** (Allows Touchscreen and DataCaptor to run as standard user. Sets clinical (touch) view preferences)
90_Draeger_Suite	**YES**

If any of the programs are already installed on the workstation where you are performing the manual install, edit the corresponding install.cmd file located in that specific program directory. Move the ‘exit’ statement to the beginning of the file. This might be different for each workstation, so please edit the scripts locally after they have been copied from the server share.

Steps for Manual Install (Must be a local administrator to run these steps)

1. Copy **Manual** folder (located in BaseMedia\Workstation) from the DVD to the server. Remove read-only from all files. Share this folder as 'manual'.
2. Edit files as per Assumptions & Prerequisites.
3. The files reside in the **\Manual\Install** folder. From the workstation, browse to the server and go to the 'manual' share. Copy the whole **\Install** folder to the root of the hard drive (C:) on the PC where you are performing the manual installation.
4. Copy the **sleep.exe** file located in the **\Manual\Install** folder to the **%systemroot%\system32** folder.
5. Browse to C:\Install\Apps and launch the **install.cmd** file. This will install all necessary programs. The logged on user must be a local administrator for the installation process.
6. Touch screen and UPS will have to be manually configured (installed), if required.
7. Configure protocols (if applicable).
8. Set up pcAnywhere callers and start host (if applicable).
9. Verify logs and functionality of workstations when the procedure is done. (Example: calibrate touch screen; verify screen resolution, colors and refresh rate; verify communication with patient monitors.)
10. Check the **Buildapps_log.txt** located in the **c:\Draeger\Logs\Install** folder. There will be two entries per application folder if the application script ran the whole way. Scripts that did not run will have only one entry.
11. Delete the Install folder from the workstation and delete it form the Recycle Bin.
12. Make the '**manual'** folder non-shared when the site is installed.

Steps for manual upgrade (Must be a local administrator to run these steps)

1. If the \Manual folder is not already copied to the server - Copy the **\Manual** folder (located in BaseMedia\Workstation) from the DVD to the server. Remove read-only from all files. Share this folder as 'manual'.
2. Edit files as per Assumptions & Prerequisites.
3. The files reside in the **\Manual\Install** folder. From the workstation, browse to the server and go to the 'manual' share. Copy the whole **\Install** folder to the root of the hard drive (C:) on the PC where you are performing the manual installation.
4. On the local workstation, copy the **sleep.exe** file located in the \Manual\Install folder to the **%systemroot%\system32** folder.
5. If MSDE 2000 SP3a with MS03-031 is already installed, enter an 'EXIT' statement at the top of the install.cmd file located in the C:\Install\Apps\ 40_MSDE2KSP3 folder.
6. If Innovian was previously installed on the workstation, you have to detach and delete the local database and queue before you install the new version of software. Browse to the C:\Install\Apps\ 90_draeger_suite\ClientDB folder and execute the "bat__drop_DIT_ClientDBs.bat" file. This will detach and delete the local database and queue. Verify that the DIT_Queue.mdf, DIT_Queue_log.ldf, LocalDB_Data.mdf and PeriopDM_log.ldf in the C:\Program Files\ Draeger Medical\Innovian Application Suite\Data folder are no longer present.
7. Browse to C:\Install\Apps and launch the install.cmd file. This will install all necessary programs. The logged on user must be a local administrator for the installation process.
8. Touch screen and UPS will have to be manually configured (installed) if required.
9. Configure protocols (if applicable).
10. Set up pcAnywhere callers and start host (if applicable)
11. Verify logs and functionality of workstations when the procedure is done. (Example: calibrate touch screen; verify screen resolution, colors and refresh rate; verify communication with patient monitors.)
12. Check the **Buildapps_log.txt** located in the **c:\Draeger\Logs\Install** folder. There will be two entries per application folder if the application script ran the whole way. Scripts that did not run will have only one entry.
13. Delete the Install folder from the workstation and delete it from the Recycle Bin.
14. Un-share the 'manual' folder when the site is installed.

APPENDIX A

The following table lists the valid TimeZones for sysprep.inf:

000 Int'l Dateline	090 GMT Greenwich	200 Sri Lanka
001 Samoa	095 Central Europe	201 N. Central Asia
002 Hawaii	100 Central European	203 Myanmar: Rangoon
003 Alaskan	105 Romance	205 S.E. Asia
004 Pacific	110 W. Europe	207 N. Asia
010 Mountain (U.S. and Canada)	113 W. Central Africa	210 China
015 U.S. Mountain: Arizona	115 E. Europe	215 Singapore
020 Central (U.S. and Canada)	120 Egypt	220 Taipei
025 Canada Central	125 EET (Helsinki, Riga,Tallinn)	225 W. Australia
030 Mexico	130 EET (Athens, Istanbul, Minsk)	227 N. Asia East
033 Central America	135 Israel: Jerusalem	230 Korea: Seoul
035 Eastern (U.S. and Canada)	140 S. Africa: Harare, Pretoria	235 Tokyo
040 U.S. Eastern: Indiana (East)	145 Russian	240 Sakha Yakutsk
045 S.A. Pacific	150 Arab	245 A.U.S. Central: Darwin
050 Atlantic (Canada)	155 E. Africa	250 Central Australia
055 S.A. Western	160 Iran	255 A.U.S. Eastern
056 Pacific S.A.	165 Arabian	260 E. Australia
060 Newfoundland	170 Caucasus Pacific (U.S. and Canada)	265 Tasmania
065 E. South America	175 Afghanistan	270 Vladivostok
070 S.A. Eastern	180 Russia Yekaterinburg	275 W. Pacific
073 Greenland	185 W. Asia	280 Central Pacific
075 Mid-Atlantic	190 India	285 Fiji
080 Azores	193 Nepal	290 New Zealand
083 Cape Verde Islands	195 Central Asia	300 Tonga
085 GMT (Greenwich Mean Time)		

APPENDIX B

Scripts that might be edited to suite an installation location other than EN-US.

Initializing the virtual floppy on a workstation that is a standard user:

You have to edit the following file: **Start_migration.cmd** (bottom of script - located in \Build\Scripts)

Read the comment section in the script for further instructions.

Sanur.exe must reside in the **%systemroot%\system32** folder on the workstation for this to work

If your password is not listed, edit the last 'runas' line in the script to match your local administrator password.

Installing the language pack as part of the automated install:

You have to edit the following file: **Install.cmd** (Located in \BUILD\Apps\90_draeger_suite)

Find the "Optional step for installing a spesific language pack for Innovian" section and follow the directions.

Example of German language pack install (keep quotes as shown below):

```
::*****************************************************************
:: Optional step for installing a spesific language pack for Innovian
:: Copy language pack msi file into the 90_Draeger_Suite folder and
:: edit the msi name below to match the package you are installing
::*****************************************************************

start /wait msiexec /i "%1\InnovianLanguagePack de-DE.msi" /Q /lwamoe
C:\Draeger\Logs\Install\Language_Pack_LOG.TXT ALLUSERS=1
```

APPENDIX C - Optional

How to add a Dräger Service Account to the Local Administrator during installation:

Add the following line to the Install.cmd file located in the **BUILD\Applications\10_localadmin** folder where <**domain**> is the site specific domain and <**username**> is the name of the Draeger Service account.

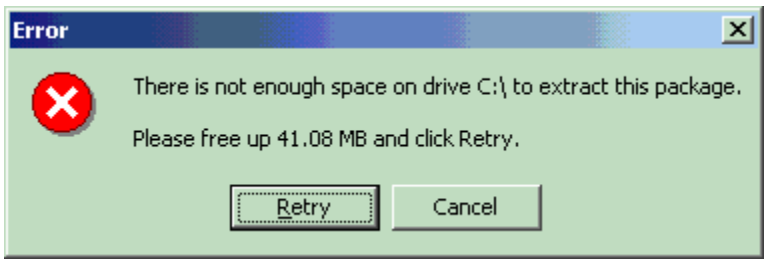
The line should be inserted at position 1. (***->) below.

```
net localgroup administrators <domain>\<username> /add

ECHO  In App Install START_02_localadmin
ECHO %1>>c:\Draeger\Logs\install\buildapps_log.txt
::
**************************************************************************
:: Temporary add the user as local administrator
:: This will be removed before last reboot in the process
::
**************************************************************************
ECHO %domain%
ECHO %uname%

:addlocal
net localgroup administrators %domain%\%uname% /add

1. ***->

echo Errorlevel set to: %errorlevel%
sleep 2
if %errorlevel%==0 goto continue
if %errorlevel%==2 goto continue
echo Unable to add user to Administrators group
sleep 5
goto addlocal

:continue
cls
net localgroup administrators
sleep 2

ECHO  In App Install END_02_localadmin
ECHO %1>>c:\Draeger\Logs\install\buildapps_log.txt
:end
Exit
```

Appendix D -- Anomalies

Running the Automated install on a WPU with a 6GB HD

When you are running the Automated install/upgrade on a WPU with a 6GB Quantum drive you might encounter the following error message:



The workaround for this issue is the following:

1. Leave the error message up – do NOT answer the popup message.
2. Open a command window and browse to **C:\Install\Apps\40_MSDE2KSP3\MS03-031**
3. Type and execute "**start /wait 8.00.0818-ENU.exe /s /a /q"** (whitout the quotes).
4. When the cursor returns to **C:\Install\Apps\40_MSDE2KSP3\MS03-031**, the install is complete.
5. Close the command window.
6. Click "**Cancel**" to the above mentioned error message and the install will continue.

See next page for the Microsoft Knowledge Base article (KB 828251).

Using the Automated Install on Advantech Hardware

Some of the reboot commands actually shut down the Advantech workstation (roughly three times).

Power cycle the workstation and the process will continue.

Below are the points of where shutdowns most likely will occur:

Initial reboot, before collecting settings
Second reboot, before imaging
Fifth reboot, after application installs

Microsoft Knowledge Base Article – 828251

You Receive an Error Message When You Install the MS03-031: Cumulative Security Patch for SQL Server

View products that this article applies to.
SYMPTOMS
When you try to install the following the cumulative security patch for SQL Server
MS03-031: Cumulative Security Patch for SQL Server
you may receive the following error message:

Error

There is not enough space on drive C:\ to extract this package. Please free up 41.08 MB and click Retry.
For additional information about the cumulative security patch for SQL Server, click the following article number to view the article in the Microsoft Knowledge Base:
815495 MS03-031: Cumulative Security Patch for SQL Server
CAUSE
This behavior occurs because there is a problem with the InstallShield installer. The InstallShield installer incorrectly calculates the free space that is on the version of the NTFS file system (NTFS) that is used in Microsoft Windows NT for your formatted hard disk drive.

This behavior is repetitive. The failure range of this behavior starts when you have 12.9 gigabytes (GB) of free space, and it is approximately 53 megabytes (MB) in length. This behavior is then repeated again after the next 4.3 GB of free space.
WORKAROUND
Use one of the following methods to increase the free space that is on your hard disk drive, and then reinstall the cumulative security patch for SQL Server:
Clear (remove or delete) unused files from your computer to increase the free space that is on your hard disk drive.

-or-
Add (install) additional files to your computer to decrease the free space that is on your on your hard disk drive.
STATUS
Microsoft has confirmed that this is a problem in the Microsoft products that are listed at the beginning of this article.
MORE INFORMATION
For additional information, click the following article number to view the article in the Microsoft Knowledge Base:
811480 BUG: You Receive Error Message: "There Is Not Enough Space on Drive" When You Extract SQL Server 2000 Service Pack 1
The information in this article applies to:
Microsoft Office Outlook 2003 with Business Contact Manager
Microsoft Windows Installer 2.0

Last Reviewed:	10/23/2003 (1.0)
Keywords:	kberrmsg kbpending kbprb KB828251 kbAudEndUser kbAudITPRO

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Dräger medical

A Dräger and Siemens Company

DrägerService is a division of
Draeger Medical, Inc.
3122 Commerce Drive
Telford, PA 18969
Tel: (215) 721-5402
(800) 543-5047
Fax:(215) 721-5784
Web: www.draegermedical.com
Printed in the U.S.A.